

## CLAIMS

1. A protected communication computer software applied to an information processing device such as a personal computer or the like having a memory and a communication function over the network, wherein the memory storing a reference table in which a relationship between a transmission destination data and an enciphering program, and a relationship between a transmission source data and a deciphering program being preset, and a plurality of kinds of enciphering programs and deciphering programs, comprising;

means for automatically enciphering a transmission anticipated file according to an enciphering program upon an input of a prescribed enciphering instruction, the enciphering program being automatically specified by looking up the reference table using the designated transmission destination data as a key, and being read out from the memory of the information processing device; and

means for automatically deciphering a received enciphered file according to a deciphering program upon an input of a prescribed deciphering instruction, the deciphering program being automatically specified by looking up the reference table using the transmission source data of a received enciphered file as a key, and being read out from the memory of the information processing device.

2. A protected communication computer software according to Claim 1, further comprising electronic mail transmitting means for transmitting the enciphered transmission anticipated file attached to an electronic mail, to the designated transmission destination.

3. A protected communication computer software according to Claims 1 or 2, wherein;

said reference table is enabled to have a plurality of kinds of enciphering programs and an application order data corresponding to a single transmission destination data, and the transmission anticipated file with transmission destination data designated and correspondence set, is enciphered in multiple stages using a plurality of kinds of enciphering programs in a sequence based on the application order data; and

said reference table is enabled to have a plurality of kinds of deciphering programs and application order data corresponding to a single transmission source data, and an enciphered file specified by the transmission source data with set correspondence, is deciphered using a plurality of kinds of deciphering programs in a sequence based on the application order data.

4. A protected communication computer software according to Claim 3, wherein said reference table is enabled to have a plurality of enciphering programs, or deciphering programs corresponding to each main text of electronic mail and attachment file of electronic mail separately, for each transmission destination data or transmission source data.

5. A protected communication computer software according to Claim 3 or 4, wherein the application order data is automatically changed suitably according to a pre-set rule.

6. A telephone machine having a transmitter notification means such as a caller identification or the like, comprising;

means for installing the enciphering program and deciphering program;

memory means for storing enciphering reference data in which transmission destination data is pre-set in correspondence with an optional enciphering program;

memory means for storing the deciphering reference data in which transmission source data is pre-set in correspondence with an optional deciphering program;

means for enciphering and transmitting a transmission anticipated voice signal using a concerned enciphering program, said enciphering program to be used for the communication being identified based on the transmission destination data regarding the communication, and the enciphering reference data; and,

means for deciphering and producing voice of the received voice signal in order using a concerned deciphering program, said deciphering program to be used being specified based on the data of a transmitter regarding the communication and the deciphering reference data.

7. A telephone machine according to Claim 6, wherein;

said reference table is enabled to have a plurality of kinds of enciphering programs corresponding to a single transmission destination data, and the voice signal transmitted to the transmission destination with correspondence set, is enciphered in multiple stages based on the plurality of kinds of enciphering programs; and

said reference table is enabled to have a plurality of kinds of deciphering programs corresponding to a single transmission source data, and deciphering voice signal transmitted from the transmission source with correspondence set, is deciphered in multiple stages using the plurality of kinds of deciphering programs.

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